ABSTRACT OF THE DISCLOSURE

A cold cathode ionization manometer for measuring pressure in vacuum and operating on the inverse magnetron principle. For extending the service life of the manometer it is provided with two independently operating cathodes and a common anode mounted in a measuring tube. The first cathode is mounted at the inlet of the measuing tube and its discharge serves as a gas purification device which prevents the formation of contaminating layers by cracking and polymerizing hydrocarbons and other substances entering the measuring tube thereby protecting the second cathode and extending the overall service life of the manometer.